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The Files, System II Project

30 AUG 1957

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Trip Report

1. A conference was held in the office of
 for the purpose of technical discussions in connection
with the proposed modification of the System II equipment.
Present at the conference were:

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opened the discussion with a description of the back-
ground and present status of the System II equipment and then a
short description of the technical operating parameters of the
system. Following this, a discussion of the modification require-
ments was held. indicated that he had been advised to
use an existing collapsible rack for mounting purposes and re-
quested that we investigate the feasibility of providing drawings
or photographs of this rack for his guidance. He also indicated
a complete redesign of the transmitter was necessary.

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2. The adding machine keyboard input device to be developed
in connection with this project was discussed. It was indicated
by that they would use a series of relays being opera-
ted by the keyboard to control the input power source.
indicated that relays were a constant source of maintenance trouble
and requested that consider the use of transistorized
or tube flip-flops. The contractor was also requested to investi-
gate the feasibility of a base station keyboard input for this
system. It is presently planned to use a telephone dial and
actuate button at the base station for inserting intelligence into
the base station transmitter.

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3. The proposed method of remounting the antenna matching
equipment was discussed and the contractor was requested to
consider the use of the weather-proof packaging technique for
mounting the antenna matching network due to the fact that it might
be frequently desirable to install this package very near the

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antenna. It was tentatively decided that the maximum cable length for coaxial cable and control cable from the antenna coupler to the main rack would be 50 feet. In addition to this, it was decided that there would be a 20 foot power cable provided from the main rack to the AC source and a 12 foot cable provided from the keyboard input to the main rack. The contractor was requested to avoid the use of potted connectors if this would not add additional cost in order to provide for maintenance of the connectors and cable connections.

4. Following this, the group visited the laboratory where the equipment was examined and the specific modifications for the various units discussed. After the visit to the laboratory, [] joined the group and a discussion of the cost of the modifications was held.

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5. [] indicated that the contractor is presently finalizing a proposal which will provide for the research and development required and the furnishing of two prototype field systems for \$130,000.00. In addition to this, the proposal provides for seven more units for \$100,000.00 and additional work including base station modification for a total of \$320,000.00. [] further indicated that there was presently approximately \$250,000.00 available in the contract.

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